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| <p>(21) International Application Number: PCT/US98/01196 (22) International Filing Date: 21 January 1998 (21.01.98) (30) Priority Data: 60/037,352 23 January 1997 (23.01.97) US (71) Applicant (for all designated States except US): IMMUSOL INCORPORATED [US/US]; 3050 Science Park Road, San Diego, CA 92121 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BARBER, Jack [US/US]; 11987 Canridge Place, San Diego, CA 92128 (US). WELCH, Peter [US/US]; 4689 East Talmadge Drive, San Diego, CA 92116 (US). YEL, Soonpin [US/US]; 7707 Sitio Musica, Carlsbad, CA 92009 (US). TRITZ, Richard [US/US]; 9515 Genesee Avenue, San Diego, CA 92121 (US). (74) Agents: WEBER, Kenneth, A. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111 (US).</p> | | <p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p> |

(54) Title: GENE FUNCTIONAL ANALYSIS AND DISCOVERY USING RANDOMIZED OR TARGET-SPECIFIC RIBOZYME GENE VECTOR LIBRARIES

(57) Abstract

The present invention provides a hairpin ribozyme library having a randomized recognition sequence, packaged in a vector and operably linked to a promoter suitable for high level expression in a wide variety of cells. The invention comprises using the library in a variety of selection protocols for identifying, isolating and characterizing known or unknown target RNAs, to reveal the phenotypic effects of such cleavage, and to identify the gene products that produce those phenotypic effects.